Mohamadreza Hagh, Jol	ddress and citizensh nn Proakis and Ma	hat: nip are as stated below next to asoud Salehi of the subject m EEDBACK ADAPTIVE EQU	natter which is claime	d and for wh	nich a pate	joint inventor wit nt is sought on the	h ;
(check one) [X] is attached hereto.		Application Seri	al No d on				
I hereby state that I have reamendment referred to abo		and the contents of the above	identified specification	on, including	g the claim	s, as amended by a	any
I acknowledge the duty to part applications, material international filing date of	information which b	n which is material to patentable became available between the part application:	oility as defined in 37 filing date of the prio	CFR 1.56, in application	ncluding for and the n	or continuation-in- ational or PCT	-
rights certificate(s), or 365 America, listed below and	(a) of any PCT inter have also identified	35 U.S.C. 119(a)-(d) or (f) of a rnational application which de l below, by checking the box, application having a filing date	signated at least one of any foreign application	country othe on for patent	r than the , inventor'	United States of s or plant breeder'	
Prior Foreign Ap	plications		<b>Priority</b>	Claimed	<u>Certifi</u>	ed Copy Attached	
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No	Yes	No	
POWER OF ATTORNEY business in the Patent and irrevocable right to prosec	Trademark Office c	ntor, I hereby appoint the follo connected therewith, and hereb	wing attorneys to pro by certify that the Gov	secute this a vernment of	pplication the United	and transact all States has the	
Michael F. Oglo James		James M. Kasischke	Michael P. Star				
Reg. No. 20464		Reg. No. 36562	Reg. No. 47108	3			
SEND CORRESPONDENCE TO:		DIRE	DIRECT TELEPHONE CALLS TO:				
Office Of Counsel, Bldg 112T Naval Undersea Warfare Center		JAMES M. KASISCHKE					
Division, Newport		(401) 832-4736					
1176 Howell Street Newport, RI 02841-17	′08						
I hereby declare that all state believed to be true; and fur punishable by fine or impressions.	atements made here rther that these state risonment, or both, u	in of my own knowledge are the ments were made with the knunder Section 1001 of Title 18 or any patent issued thereon.	owledge that willful f	false stateme	ents and the	e like so made are	!
Full name of first inventor	: FLETCHER A.	BLACKMON					
Inventor's signature				Date:			
Residence: FORESTDA Citizenship: U.S.A.		JSETTS					

John Proakis, Masoud Sa	ddress and citizenshalehi and Fletcher	nat:  ip are as stated below next to a A. Blackmon of the subject EEDBACK ADAPTIVE EQU	matter which is claime	d and for v	which a pat	oint inventor ent is sought o	with on the
(check one) [X]	is attached hereto.	Application Seria	[ ] was filed on as Application Serial No and was amended on				
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rights certificate(s), or 3656	(a) of any PCT inter have also identified	35 U.S.C. 119(a)-(d) or (f) of a mational application which desired below, by checking the box, a pplication having a filing date	signated at least one co my foreign application	untry othe for patent	er than the l , inventor's	Jnited States of or plant bree	of der's
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(Number)	(Country)	(Day/Month/Year Filed)	Yes	No	Yes	No	
POWER OF ATTORNEY business in the Patent and irrevocable right to prosect	Trademark Office c	ntor, I hereby appoint the follow onnected therewith, and hereby	wing attorneys to prose y certify that the Gover	cute this a	application the United	and transact a States has the	11
Michael F. Ogl	0	James M. Kasischke	Michael P. Stanle	<b>Э</b> у			
Reg. No. 2046	1	Reg. No. 36562	Reg. No. 47108			•	
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Division, Newport		(401) 832-4736				•	
1176 Howell Street Newport, RI 02841-17	08						
believed to be true; and fur punishable by fine or impr	rther that these state isonment, or both, t	in of my own knowledge are to ements were made with the known under Section 1001 of Title 18 or any patent issued thereon.	owledge that willful fal	se stateme	ents and the	: like so made	are
Full name of second inven	tor: MOHANAD	REZA M. HAGH					
Inventor's signature				Date:			
Residence: BELMONT, Citizenship: U.S.A. Post Office Address: 20-2		TTS T, BELMONT, MA 02478					

As a below named inventor, I hereby declare that:

Masoud Salehi, Fletch	er A. Blackmon aı	ship are as stated below next to and Mohamadreza M. Hagh o DECISION FEEDBACK AD	f the subject matter w	hich is clai	med and f	or which	h a patent is	
(check one) [X] is attached hereto.		Application Serie	al Noa d on	s				
I hereby state that I have a amendment referred to ab		stand the contents of the above	identified specification	n, including	g the claim	s, as an	nended by any	
I acknowledge the duty to part applications, material international filing date o	l information which	n which is material to patentab became available between the part application:	ility as defined in 37 C filing date of the prior	CFR 1.56, i application	ncluding for and the r	or conti ational	nuation-in- or PCT	
rights certificate(s), or 36 America, listed below and	5(a) of any PCT into d have also identified	35 U.S.C. 119(a)-(d) or (f) of a crnational application which dead below, by checking the box, a application having a filing date	signated at least one co my foreign application	ountry other	er than the , inventor	United s or pla	States of nt breeder's	
Prior Foreign A	pplications		Priority (	Claimed	Certifi	ed Copy	y Attached	
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No	Yes	No		
business in the Patent and irrevocable right to prose	I Trademark Office of cute this application		y certify that the Gove	ernment of	application the United	and tra	nsact all has the	
Michael F. Og Reg. No. 204		James M. Kasischke Reg. No. 36562	Michael P. Stanl Reg. No. 47108	ey				
SEND CORRESPONDENCE TO: Office Of Counsel, Bldg 112T		DIRECT TELEPHONE CALLS TO:						
Naval Undersea Warfare Center Division, Newport 1176 Howell Street Newport, RI 02841-1708			ES M. KASISCHKE ) 832-4736	E			·	
believed to be true; and fi punishable by fine or imp	urther that these staterisonment, or both,	ein of my own knowledge are trements were made with the knownder Section 1001 of Title 18 or any patent issued thereon.	wledge that willful fa	lse stateme	ents and th	e like sc	o made are	
Full name of third invent	or: JOHN PROAI	KIS						
Inventor's signature				Date:			-	
Residence: ANDOVER Citizenship: U.S.A. Post Office Address: 9 C						<i>y</i>		

As a below named inventor, I hereby declare that My residence, post office address and citizenshit Fletcher A. Blackmon, Mohamadreza M. I sought on the invention entitled: ITERATIVE D	p are as stated below next to : Hagh and John Proakis of t	he subject matter which	ch is claime	ed and for v	which a pat		
(check one) [X] is attached hereto.	Application Seria	al Noa l on	s		,		
I hereby state that I have reviewed and understar amendment referred to above.	nd the contents of the above i	dentified specification	n, including	the claims	, as amend	led by any	
I acknowledge the duty to disclose information of part applications, material information which be international filing date of the continuation-in-part of the continuation of the contin	came available between the f						
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's right certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed:							
<b>Prior Foreign Applications</b>		Priority (	Claimed	Certifie	d Copy Att	tached	
(Number) (Country)	(Day/Month/Year Filed)	Yes	No	Yes	No		
POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorneys to prosecute this application and transact all business in the Patent and Trademark Office connected therewith, and hereby certify that the Government of the United States has the irrevocable right to prosecute this application:							
Michael F. Oglo	James M. Kasischke	Michael P. Stanle	ey				
Reg. No. 20464	Reg. No. 36562	Reg. No. 47108					
SEND CORRESPONDENCE TO: Office Of Counsel, Bldg 112T	DIREC	T TELEPHONE CAI	LLS TO:				
Naval Undersea Warfare Center	JAMES M. KASISCHKE						
Division, Newport	(401)	832-4736					
1176 Howell Street Newport, RI 02841-1708							
Newport, RI 02841-1708							
I hereby declare that all statements made herein believed to be true; and further that these statem punishable by fine or imprisonment, or both, un- may jeopardize the validity of the application or	ents were made with the known der Section 1001 of Title 18 of	wledge that willful fal	se statemer	nts and the	like so mad	de are	
Full name of fourth inventor: MASOUD SAL	EHI						
Inventor's signature			Date:				

Residence: WESTWOOD, MASSACHUSETTS

Citizenship: U.S.A.
Post Office Address: 40 ENDICOTT STREET, WESTWOOD, MA 02090